

CLAIMS

1. A fibre having a maximum use temperature of 1200°C or more which comprises:-

$\text{SiO}_2 > 64.25 \text{ wt\%}$

$\text{CaO} > 18 \text{ wt\%}$

$\text{MgO} < 17 \text{ wt\%}$

and in which the amount of MgO in mol% is greater than the amount of CaO in mol % and in which the SiO_2 excess as specified is no greater than 21.8mol%..

2. A fibre as claimed in claim 1 and comprising:-

$\text{CaO} < 21 \text{ wt\%}$.

3. A fibre as claimed in claim 2 and comprising:-

$\text{CaO} < 20.5 \text{ wt\%}$.

4. A fibre as claimed in any of claims 1 to 3 and comprising:-

$\text{CaO} > 19 \text{ wt\%}$.

5. A fibre as claimed in claim 4 and comprising:-

$\text{CaO} > 19.5 \text{ wt\%}$

6. A fibre as claimed in any of claims 1 to 4 and comprising:-

$\text{MgO} > 14.25 \text{ wt\%}$.

7. A fibre as claimed in claim 6 and comprising:-

$\text{MgO} > 14.75 \text{ wt\%}$.

8. A fibre as claimed in claim 7 and comprising:-

$\text{MgO} > 15.25 \text{ wt\%}$.

9. A fibre as claimed in any preceding claim and comprising:-

$\text{MgO} < 16 \text{ wt\%}$.

10. A fibre as claimed in any preceding claim and comprising:-

$\text{SiO}_2 65 \pm 0.5 \text{ wt\%}$

$\text{CaO} 20 \pm 0.5 \text{ wt\%}$

$\text{MgO} 15 \pm 0.5 \text{ wt\%}$.

11. A fibre as claimed in any of claims 1 to 9 and comprising:-

$\text{SiO}_2 64.5 - 64.7 \text{ wt\%}$

$\text{CaO} 19.5 - 20.2 \text{ wt\%}$

$\text{MgO} 15.5 - 15.6 \text{ wt\%}$.

12. A fibre as claimed in any preceding claim and comprising:-

SiO_2 about 65 wt%

CaO about 19.5 wt%

MgO about 15.5 wt%.

13. A fibre as claimed in any preceding claim and consisting essentially of:-

CaO 18.7 to 20.2wt%

MgO 14.47 to 15.9wt%

SiO_2 64.5 to 65.1wt%

Al_2O_3 0 to 0.56wt%